

## IN THE CLAIMS:

Please amend the claims as follows:

1. (Currently amended) A low-pressure gas discharge lamp, which is equipped with a gas-discharge vessel containing an inert gas filling as the buffer gas and an indium, thallium and/or copper halide, and with electrodes and with means for generating and maintaining a low-pressure gas discharge, characterized in that it has, as ~~the~~ an electron emitter substance, a mixture of BaO, SrO, CaO, and MgO, wherein:

a) the molar proportion of BaO is less than a molar proportion corresponding to a weight proportion of 1 percent by weight,

b) the molar proportion of SrO is less than a molar proportion corresponding to a weight proportion of 10 percent by weight,

c) the sum of the molar proportions of CaO and MgO is greater than a molar proportion corresponding to a weight proportion of 90 percent by weight, while the CaO weight proportion in the CaO/MgO mixture lies between 10 and 90 percent by weight.

2. (Original) A low-pressure gas discharge lamp as claimed in claim 1, characterized in that it contains an inert gas from the group of helium, neon, argon, krypton and/or xenon as the buffer gas

3. (Previously presented) A low-pressure gas discharge lamp as claimed in claim 1, characterized in that a fluorescent coating is applied to the interior and/or exterior of the gas discharge vessel.

4. (Currently amended) ~~A use of the electron emitter substance~~ The low-pressure gas discharge lamp as claimed in claim 1, wherein the electron emitter substance is configured for coating electrodes in

discharge lamps.

5. (Currently amended) ~~A use of the electron emitter substance~~ The low-pressure gas discharge lamp as claimed in claim 1, wherein the electron emitter substance is configured for coating a tungsten electrode.